INTERNATIONAL SEARCH REPORT

International application No.
PCT/FI 2004/000459

| A. CLASS | IFICATION OF SUBJECT MATTER | | | | | | | |
|---|---|---|-----------------------|--|--|--|--|--|
| IPC7: G06K 19/067, G06K 7/08 According to International Patent Classification (IPC) or to both national classification and IPC | | | | | | | | |
| | According to International Patent Classification (IPC) or to both national classification and IPC B. FIELDS SEARCHED | | | | | | | |
| | ocumentation searched (classification system followed by | classification symbols) | | | | | | |
| IPC7: G06K | | | | | | | | |
| | ion searched other than minimum documentation to the | extent that such documents are included in | the fields searched | | | | | |
| SE,DK,F | I,NO classes as above | | | | | | | |
| Electronic di | ata base consulted during the international search (name | of data base and, where practicable, search | terms used) | | | | | |
| | | | | | | | | |
| | TERNAL, WPI DATA, PAJ, FULLTEXT | | | | | | | |
| | MENTS CONSIDERED TO BE RELEVANT | | | | | | | |
| Category* | Citation of document, with indication, where appr | ropriate, of the relevant passages | Relevant to claim No. | | | | | |
| X | US 5159181 A (BARTELS, H ET AL), (27.10.1992), column 5, line line 19 | 1-8 | | | | | | |
| | | | | | | | | |
| A | US 4355300 A (WEBER, H J), 19 Oc (19.10.1982), the whole docum | 1-8 | | | | | | |
| | | | | | | | | |
| A | US 5818019 A (IRWIN, JR, K E ET 6 October 1998 (06.10.1998), | 1-8 | | | | | | |
| | | | | | | | | |
| A | EP 0673103 A1 (ERICSSON INC), 20 (20.09.1995), the whole docu | 1-8 | | | | | | |
| İ | | | | | | | | |
| | | | <u></u> | | | | | |
| Further documents are listed in the continuation of Box C. X See patent family annex. | | | | | | | | |
| * Special categories of cited documents: "A" document defining the general state of the art which is not considered "T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand | | | | | | | | |
| "B" earlier | to be of particular relevance the principle or theory underlying the invention "B" earlier application or patent but published on or after the international "X" document of particular relevance; the claimed invention cannot be | | | | | | | |
| "L" document which may throw doubts on priority claim(s) or which is step when the document is taken alone cited to establish the publication date of another citation or other | | | | | | | | |
| special reason (as specified) "O" document referring to an oral disclosure, use, exhibition or other means "O" document referring to an oral disclosure, use, exhibition or other means "Y" document of particular relevance: the claimed invention cannot considered to involve an inventive step when the document is combined with one or more other such documents, such combined being obvious to a person skilled in the art | | | | | | | | |
| "P" document published prior to the international filing date but later than the priority date claimed "&" document member of the same patent family | | | | | | | | |
| Date of the actual completion of the international search 29 October 2004 Date of mailing of the international search 0 2 -11- 2004 | | | | | | | | |
| Name and mailing address of the ISA/ Authorized officer | | | | | | | | |
| Swedish Patent Office | | | | | | | | |
| 1 | 5, S-102 42 STOCKHOLM | Patrik Rydman /LR Telephone No. +46.8.782.25.00 | | | | | | |

INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No. PCT/FI 2004/000459

| US | 5159181 | A | 27/10/1992 | DE EP EP JP JP | 3933542 A 0422481 A 0422482 A 2781811 B 3126184 A 3131996 A | 18/04/1991 17/04/1991 17/04/1991 30/07/1998 29/05/1991 05/06/1991 |
|----|---------|---|------------|---|---|--|
| US | 4355300 | A | 19/10/1982 | NONE | | |
| US | 5818019 | A | 06/10/1998 | US US US US US US US US AU CA EP ES US US WO TAU OF EP ES US US US US US US US US US US US US US | 6053405 A 6435408 B 6491215 B 6736324 B 6776337 B 20030042306 A 20030042317 A 705489 B 5954496 A 2219986 A 1008114 A 5621200 A 9641278 A 249651 T 696283 B 2906695 A 2192329 A 69531735 D 0766855 A,B 2208681 T 5471039 A 9535551 A | 25/04/2000 20/08/2002 10/12/2002 18/05/2004 17/08/2004 06/03/2003 20/05/1999 30/12/1996 19/12/1996 14/06/2000 15/04/1997 19/12/1996 15/09/2003 03/09/1998 15/01/1996 28/12/1995 00/00/0000 09/04/1997 16/06/2004 28/11/1995 28/12/1995 |

INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No. PCT/FI 2004/000459

| EP | 0673103 | A1 | 20/09/1995 | AT | 274250 T | 15/09/2004 |
|----|---------|----|------------|----|------------------------|------------|
| | | | | AT | 274251 T | 15/09/2004 |
| | | | | AT | 274252 T | 15/09/2004 |
| | | | | AU | 687175 B | 19/02/1998 |
| | | | | AU | 1998095 A | 03/10/1995 |
| | | | | CA | 2162861 A | 21/09/1995 |
| | | | | CN | 1045697 B | 13/10/1999 |
| | | | | CN | 1107988 B | 07/05/2003 |
| | | | | CN | 1119668 B | 27/08/2003 |
| | | | | CN | 1128087 A | 31/07/1996 |
| | | | | CN | 1214555 A | 21/04/1999 |
| | | | | CN | 1214353 A 1216871 A | 19/05/1999 |
| | | | | CN | | |
| | | | | DE | | 08/09/1999 |
| | | | | | 69533410 D | 00/00/0000 |
| | | | | DE | 69533411 D | 00/00/0000 |
| | | | | DE | 69533412 D | 00/00/0000 |
| | | | | EP | 0984540 A,B | 08/03/2000 |
| | | | | EP | 0984541 A,B | 08/03/2000 |
| | | | | EP | 0984542 A,B | 08/03/2000 |
| | | | | FI | 955481 A | 14/11/1995 |
| | | | | JP | 9500520 T | 14/01/1997 |
| | | | | US | 5608306 A | 04/03/1997 |
| | | | | MO | 9525375 A | 21/09/1995 |
| | | | | ZA | 9502123 A | 11/12/1995 |